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January 30, 2018

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of December 2017.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

Rebecca J. Dulin

Enclosure

cc: Service List

Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item	December 2017
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 143,000,003
	MWH sales:	
2	Total System Sales	5,677,416
3	Less intersystem sales	646,550
4	Total sales less intersystem sales	5,030,866
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.8425
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.5765
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	931,005
8	Oil	19,015
9	Natural Gas - Combustion Turbine	244,207
10	Natural Gas - Combined Cycle	2,006,898
11	Total Fossil	3,201,126
12	Nuclear	2,698,997
13	Hydro - Conventional	35,266
14	Solar Distributed Generation	13,467
15	Total MWH generation	5,948,856

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		December 2017
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	31,253,507
0501310 fuel oil consumed - steam		1,476,096
Total Steam Generation - Account 501		32,729,603
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		18,131,180
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		10,825,978
0547000 natural gas capacity - Combustion Turbine		1,169,687
0547000 natural gas consumed - Combined Cycle		55,123,382
0547000 natural gas capacity - Combined Cycle		10,726,070
0547200 fuel oil consumed		2,372,513
Total Other Generation - Account 547		80,217,630
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		26,835,460
Fuel and fuel-related component of DERP purchases		-
PURPA purchased power capacity		3,901,444
DERP purchased power capacity		-
Total Purchased Power and Net Interchange - Account 555		30,736,904
Less fuel and fuel-related costs recovered through intersystem sales - Account 447		20,319,262
Total Costs Included in Base Fuel Component	$	141,496,056
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	1,924
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		1,566,799
Emission Allowance Gains		(20,000)
Less reagents expense recovered through intersystem sales - Account 447		3,399
Less emissions expense recovered through intersystem sales - Account 447		41,376
Total Costs Included in Environmental Component		1,503,948
Fuel and Fuel-related Costs excluding DERP incremental costs	$	143,000,003
DERP Incremental Costs		135,393
Total Fuel and Fuel-related Costs	$	143,135,396

Notes: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

DECEMBER 2017

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Broad River Energy, LLC.	$ 2,752,581	$ 1,764,831	13,438	$ 987,750	-
City of Fayetteville	739,662	714,350	128	25,312	-
Haywood EMC	29,850	29,850	-	-	-
NCEMC	4,829,552	3,256,235	21,379	1,573,317	-
PJM Interconnection, LLC.	965	-	1	965	-
Southern Company Services	4,737,843	1,654,380	97,494	3,083,463	-
DE Carolinas - Native Load Transfer	3,376,332	-	105,880	3,380,182	$ (3,850)
DE Carolinas - Native Load Transfer Benefit	299,681	-	-	299,681	-
DE Carolinas - Fees	97,743	-	-	97,743	-
Energy Imbalance	(31)		(1)	(29)	(2)
Generation Imbalance	1,387		43	846	541
	$ 16,865,565	**$ 7,419,646**	**238,362**	**$ 9,449,230**	**$ (3,311)**
Act 236 PURPA Purchases					
Renewable Energy	$ 15,751,961	$ -	226,663	$ 15,751,961	-
Other Qualifying Facilities	5,535,713	-	87,885	5,535,713	-
	$ 21,287,674	**$ -**	**314,548**	**$ 21,287,674**	**$ -**
Total Purchased Power	**$ 38,153,239**	**$ 7,419,646**	**552,910**	**$ 30,736,904**	**$ (3,311)**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

DECEMBER 2017

	Total	Capacity	Non-capacity		
Sales	$	$	mWh	Fuel $	Non-fuel $
Market Based:					
NCEMC Purchase Power Agreement	$ 901,799	$ 652,500	7,216	$ 445,952	$ (196,653)
PJM Interconnection, LLC.	9,355	-	489	16,271	(6,916)
Other:					
DE Carolinas - Native Load Transfer Benefit	2,182,219	-	-	2,182,219	-
DE Carolinas - Native Load Transfer	18,275,264	-	638,836	17,719,595	555,669
Generation Imbalance	(2)	-	9	-	(2)
Total Intersystem Sales	**$ 21,368,635**	**$ 652,500**	**646,550**	**$ 20,364,037**	**$ 352,098**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
December 2017

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					5,030,865,635
2	DERP Net Metered kWh generation	Input					881,482
3	Adjusted System kWh sales	L1 + L2					5,031,747,117
4	Actual S.C. Retail kWh sales	Input	177,212,921	22,308,770	232,842,577	6,503,445	438,867,713
5	DERP Net Metered kWh generation	Input	222,069	9,394	650,019		881,482
6	Adjusted S.C. Retail kWh sales	L4 + L5	177,434,990	22,318,164	233,492,596	6,503,445	439,749,195
7	Actual S.C. Demand units (kw)	L32 / 31b *100			595,057		
	Base fuel component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					$125,698,855
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$28,232
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$125,727,087
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.499
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$4,433,527	$557,659	$5,834,225	$162,500	$10,987,911
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	($15,130)	($1,526)	($11,576)	$0	($28,232)
14	S.C. Retail portion of incurred system expense	L12 + L13	$4,418,397	$556,133	$5,822,649	$162,500	$10,959,679
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.211	2.210	2.210	2.210	2.210
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$3,918,526	$493,024	$5,145,821	$143,726	$9,701,097
17	DERP NEM incentive - fuel component	Input	($4,292)	($433)	($3,284)	$0	($8,009)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$3,914,234	$492,591	$5,142,537	$143,726	$9,693,088
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	$504,163	$63,542	$680,112	$18,774	$1,266,591
20	Adjustment - Economic Purchases	Input	$0	$0	$0	$0	$0
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	$504,163	$63,542	$680,112	$18,774	$1,266,591
	Base fuel component of recovery - capacity						
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.417	0.334			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			95		
23	Incurred S.C. base fuel - capacity expense	Input	$738,529	$74,508	$565,032		$1,378,069
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.472	0.371			
24b	Billed base fuel - capacity rate (¢/kW)	Input			96		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$835,788	$82,766	$ 579,198	$0	$1,497,752
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	($97,259)	($8,258)	(14,166.00)	$0	($119,683)
27	Adjustment	Input	$0	$0	$0	$0	$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	($97,259)	($8,258)	($14,166)	$0	($119,683)
	Environmental component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.040	0.032			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			9		
30	Incurred S.C. environmental expense	Input	$70,310	$7,093	$53,793		$131,196
31a	Billed environmental rates by class (¢/kWh)	Input	0.035	0.024			
31b	Billed environmental rate (¢/kW)	Input			7		
32	Billed S.C. environmental revenue	L31a * L4 /100	$61,585	$5,354	$ 41,654		$108,593
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	$8,725	$1,739	$12,139	$0	$22,603
34	Adjustment	Input	$0	$0	$0	$0	$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	$8,725	$1,739	$12,139	$0	$22,603
	Distributed Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.000	0.000			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.000		
37	Incurred S.C. DERP avoided cost expense	Input	-	-	-		$0
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.000	0.000			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$0	$0	$0		$0
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	$0	$0	$0	$0	$0
41	Adjustment	Input	$0	$0	$0	$0	$0
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	$0	$0	$0	$0	$0
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	$415,629	$57,023	$678,085	$18,774	$1,169,511

Year 2017-2018

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
_/2 Balance ending February 2017	6,872,181					
March 2017 - actual	9,008,686	$763,399	$98,306	$1,239,859	$34,941	$2,136,505
April 2017 - actual	10,494,432	$426,888	$62,439	$973,844	$22,575	$1,485,746
May 2017 - actual	9,808,868	($173,333)	($27,502)	($475,412)	($9,317)	($685,564)
June 2017 - actual	11,236,626	$488,131	$74,799	$844,641	$20,187	$1,427,758
July 2017 - actual	11,772,725	$172,369	$25,506	$332,436	$5,788	$536,099
August 2017 - actual	11,986,788	$72,808	$10,890	$127,812	$2,553	$214,063
September 2017 - actual	10,024,599	($684,686)	($110,532)	($1,141,999)	($24,972)	($1,962,189)
October 2017 - actual	8,131,446	($500,633)	($83,695)	($1,284,814)	($24,011)	($1,893,153)
November 2017 - actual	7,039,997	($314,738)	($48,923)	($712,179)	($15,609)	($1,091,449)
December 2017 - actual	8,306,588	$504,163	$63,542	$680,112	$18,774	$1,266,591
January 2018 - forecast	8,042,751	($108,207)	($10,362)	($141,897)	($3,371)	($263,837)
February 2018 - forecast	6,785,992	($498,253)	($50,487)	($691,561)	($16,458)	($1,256,759)
March 2018 - forecast	6,181,396	($226,932)	($25,207)	($344,250)	($8,207)	($604,596)
April 2018 - forecast	5,637,840	($174,787)	($24,640)	($336,156)	($7,973)	($543,556)
May 2018 - forecast	5,138,853	($141,821)	($23,929)	($325,520)	($7,717)	($498,987)
June 2018 - forecast	4,827,978	($97,775)	($14,271)	($194,243)	($4,586)	($310,875)

Year 2017-2018

Cumulative (over) / under recovery - BASE FUEL CAPACITY

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
_/2 Balance ending February 2017	893,261					
March 2017 - actual	806,670	($56,692)	($2,999)	($26,900)	$0	($86,591)
April 2017 - actual	855,256	$34,522	$2,742	$11,322	$0	$48,586
May 2017 - actual	863,837	$16,521	($860)	($7,080)	$0	$8,581
June 2017 - actual	1,093,070	$111,106	$8,714	$109,413	$0	$229,233
July 2017 - actual	1,329,570	$92,732	($6,332)	$150,100	$0	$236,500
August 2017 - actual	1,544,702	$102,543	($7,486)	$120,075	$0	$215,132
September 2017 - actual	1,721,380	$110,370	($11,647)	$77,955	$0	$176,678
October 2017 - actual	2,170,530	$335,395	$12,870	$100,885	$0	$449,150
November 2017 - actual	2,359,492	$190,857	$5,518	($7,413)	$0	$188,962
December 2017 - actual	2,239,809	($97,259)	($8,258)	($14,166)	$0	($119,683)
January 2018 - forecast	575,504	($1,056,188)	($75,637)	($532,480)	$0	($1,664,305)
February 2018 - forecast	(990,992)	($968,169)	($66,267)	($532,060)	$0	($1,566,496)
March 2018 - forecast	(1,036,160)	($19,865)	$10,374	($35,677)	$0	($45,168)
April 2018 - forecast	(797,184)	$222,846	$11,083	$5,047	$0	$238,976
May 2018 - forecast	(382,282)	$320,553	$10,919	$83,430	$0	$414,902
June 2018 - forecast	(370,248)	$105,818	$2,471	($96,255)	$0	$12,034

Year 2017-2018

Cumulative (over) / under recovery - ENVIRONMENTAL

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
_/2 Balance ending February 2017	(618,034)					
March 2017 - actual	(633,513)	($13,791)	($1,056)	($632)	$0	($15,479)
April 2017 - actual	(682,896)	($27,527)	($3,223)	($18,633)	$0	($49,383)
May 2017 - actual	(718,603)	($19,646)	($2,877)	($13,184)	$0	($35,707)
June 2017 - actual	(729,460)	($12,726)	($2,238)	$4,107	$0	($10,857)
July 2017 - actual	(639,166)	$45,068	$4,415	$40,811	$0	$90,294
August 2017 - actual	(570,303)	$35,153	$3,230	$30,480	$0	$68,863
September 2017 - actual	(606,640)	($19,149)	($2,616)	($14,572)	$0	($36,337)
October 2017 - actual	(634,976)	($8,894)	($1,628)	($17,814)	$0	($28,336)
November 2017 - actual	(675,922)	($15,979)	($1,925)	($23,042)	$0	($40,946)
December 2017 - actual	(653,319)	$8,725	$1,739	$12,139	$0	$22,603
January 2018 - forecast	(573,524)	($25,750)	$12,592	$92,953	$0	$79,795
February 2018 - forecast	(555,949)	($64,527)	$10,448	$71,654	$0	$17,575
March 2018 - forecast	(552,777)	$1,308	$1,797	$67	$0	$3,172
April 2018 - forecast	(570,971)	($3,490)	($410)	($14,294)	$0	($18,194)
May 2018 - forecast	(577,061)	$3,267	($450)	($8,907)	$0	($6,090)
June 2018 - forecast	(523,253)	$35,374	$3,799	$14,635	$0	$53,808

Cumulative (over) / under recovery - DERP AVOIDED COSTS

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
_/2 Balance ending February 2017	-					
March 2017 - actual	0	$0	$0	$0	$0	$0
April 2017 - actual	0	$0	$0	$0	$0	$0
May 2017 - actual	0	$0	$0	$0	$0	$0
June 2017 - actual	252	$135	$14	$103	$0	$252
July 2017 - actual	252	$0	$0	$0	$0	$0
August 2017 - actual	252	$0	$0	$0	$0	$0
September 2017 - actual	252	$0	$0	$0	$0	$0
October 2017 - actual	252	$0	$0	$0	$0	$0
November 2017 - actual	252	$0	$0	$0	$0	$0
December 2017 - actual	252	$0	$0	$0	$0	$0
January 2018 - forecast	6,062	$3,114	$314	$2,382	$0	$5,810
February 2018 - forecast	12,132	$3,253	$328	$2,489	$0	$6,070
March 2018 - forecast	18,185	$3,244	$327	$2,482	$0	$6,053
April 2018 - forecast	24,536	$3,404	$343	$2,604	$0	$6,351
May 2018 - forecast	30,692	$3,299	$333	$2,524	$0	$6,156
June 2018 - forecast	36,499	$3,112	$314	$2,381	$0	$5,807

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
December 2017

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$72,559	$37,239	$25,595	$135,393
45	Billed S.C. DERP incremental rates by account ($/account)	Input	1.00	2.88	99.56	
46	Billed S.C. DERP incremental revenue	Input	$130,953	$88,581	$23,911	$243,445
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	($58,394)	($51,342)	$1,684	($108,052)
48	Adjustment	Input	$0	$0	$0	$0
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	($58,394)	($51,342)	$1,684	($108,052)

Year 2017-2018 Cumulative (over) / under recovery	Cumulative	Total
_/2 Balance ending February 2017	391,293	
March 2017 - actual	371,761	($19,532)
April 2017 - actual	379,969	$8,208
May 2017 - actual	399,488	$19,519
June 2017 - actual	460,764	$61,276
July 2017 - actual	325,094	($135,670)
August 2017 - actual	196,111	($128,983)
September 2017 - actual	99,713	($96,398)
October 2017 - actual	(44,209)	($143,922)
November 2017 - actual	(183,930)	($139,721)
December 2017 - actual	(291,982)	($108,052)
January 2018 - forecast	(383,636)	($91,654)
February 2018 - forecast	(465,035)	($81,399)
March 2018 - forecast	(536,158)	($71,123)
April 2018 - forecast	(599,725)	($63,567)
May 2018 - forecast	(656,747)	($57,022)
June 2018 - forecast	(707,352)	($50,606)

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.

_/2 February 2017 ending balance reflects total adjustments of $(129,849) pursuant to the docket no. 2017-1-E directive.

Duke Energy Progress
Fuel and Fuel Related Cost Report
December 2017

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$3,879,684	-	$12,935,124	$2,053,079
Oil	-	-	-	(769)	191,128	-	907,071	546,300
Gas - CC	-	23,752,094	16,319,729	-	-	-	-	-
Gas - CT	47	-	1,036,278	-	-	57,980	-	-
Total	47	$23,752,094	$17,356,007	($769)	$4,070,812	$57,980	$13,842,195	$2,599,379
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	319.56	-	324.99	333.78
Oil	-	-	-	-	1,423.67	-	1,388.78	1,387.71
Gas - CC	-	468.81	528.57	-	-	-	-	-
Gas - CT	-	-	496.10	-	-	-	-	-
Weighted Average	-	468.81	526.52	-	331.64	0.00	342.16	397.17
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$4,885,162	-	$20,288,733	$6,079,612
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	10,128	-	-	-	51,391	328,533	834,695	590,010
Gas - CC	-	23,752,094	16,319,729	-	-	-	-	-
Gas - CT	47	-	1,036,278	-	-	57,980	-	-
Nuclear	-	-	-	4,111,865	-	-	-	-
Total	$10,175	$23,752,094	$17,356,007	$4,111,865	$4,936,553	$386,513	$21,123,428	6,669,622
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	279.55	-	321.13	318.25
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,507.14	-	-	-	1,380.37	1,380.39	1,429.52	1,436.46
Gas - CC	-	468.81	528.57	-	-	-	-	-
Gas - CT	-	-	496.10	-	-	-	-	-
Nuclear	-	-	-	69.31	-	-	-	-
Weighted Average	1,514.14	468.81	526.52	69.31	281.89	1,624.00	331.28	341.78
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.14	-	3.37	3.50
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	15.54	23.45	15.43	15.80
Gas - CC	-	3.35	3.70	-	-	-	-	-
Gas - CT	-	-	5.10	-	-	-	-	-
Nuclear	-	-	-	0.69	-	-	-	-
Weighted Average	-	3.35	3.76	0.69	3.17	27.59	3.48	3.76
Burned MBTU's								
Coal	-	-	-	-	1,747,493	-	6,317,848	1,910,336
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	672	-	-	-	3,723	23,800	58,390	41,074
Gas - CC	-	5,066,428	3,087,507	-	-	-	-	-
Gas - CT	-	-	208,884	-	-	-	-	-
Nuclear	-	-	-	5,932,156	-	-	-	-
Total	672	5,066,428	3,296,391	5,932,156	1,751,216	23,800	6,376,238	1,951,410
Net Generation (mWh)								
Coal	-	-	-	-	155,417	-	601,860	173,728
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	(34)	-	-	-	331	1,401	5,411	3,735
Gas - CC	-	710,071	441,279	-	-	-	-	-
Gas - CT	(28)	-	20,321	-	-	-	-	-
Nuclear	-	-	-	592,959	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(62)	710,071	461,600	592,959	155,748	1,401	607,271	177,463
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$239,953	$19,790
Limestone	-	-	-	-	229,444	-	463,829	199,956
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	9,579	-	166,569	81,874
Urea	-	-	-	-	125,370	-	-	-
Total	-	-	-	-	$364,394	-	$870,351	$301,619

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME December 2017
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$18,867,887	$287,528,005
Oil	(1,699)	-	-	-	-	(2,695)	1,639,336	18,050,864
Gas - CC	-	-	-	-	25,777,629	-	65,849,452	613,612,469
Gas - CT	-	-	345,959	132,084	10,423,317	-	11,995,665	84,108,787
Total	($1,699)	-	$345,959	$132,084	$36,200,946	($2,695)	$98,352,340	$1,003,300,125
Average Cost of Fuel Purchased (¢/MBTU								
Coal	-	-	-	-	-	-	324.78	316.44
Oil	-	-	-	-	-	-	1,388.02	1,317.70
Gas - CC	-	-	-	-	433.45	-	466.98	419.43
Gas - CT	-	-	471.38	451.32	433.50	-	441.66	390.02
Weighted Average	-	-	471.38	451.32	433.46	-	432.42	385.61
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$31,253,507	$292,950,140
Oil - CC	-	-	-	-	345	-	345	60,347
Oil - Steam/CT	-	-	633,624	1,040,339	359,544	-	3,848,264	22,903,251
Gas - CC	-	-	-	-	25,777,629	-	65,849,452	613,612,469
Gas - CT	-	-	345,959	132,084	10,423,317	-	11,995,665	84,108,787
Nuclear	9,135,690	-	-	-	-	4,883,625	18,131,180	201,901,963
Total	$9,135,690	$0	$979,583	$1,172,423	$36,560,835	$4,883,625	$131,078,413	$1,215,536,958
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	313.30	312.88
Oil - CC	-	-	-	-	1,642.86	-	1,642.86	1,840.52
Oil - Steam/CT	-	-	1,747.21	1,711.06	1,660.48	-	1,561.93	1,448.73
Gas - CC	-	-	-	-	433.45	-	466.98	419.43
Gas - CT	-	-	471.38	451.32	433.50	-	441.66	390.02
Nuclear	63.04	-	-	-	-	65.45	65.02	64.97
Weighted Average	63.04	-	893.31	1,301.72	436.64	65.45	238.65	211.83
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.36	3.41
Oil - CC	-	-	-	-	17.25	-	17.25	20.38
Oil - Steam/CT	-	-	23.43	29.17	18.38	-	20.24	18.83
Gas - CC	-	-	-	-	3.01	-	3.28	2.99
Gas - CT	-	-	5.69	6.83	4.83	-	4.91	4.34
Nuclear	0.66	-	-	-	-	0.68	0.67	0.68
Weighted Average	0.66	-	11.16	21.31	3.41	0.68	2.20	1.98
Burned MBTU's								
Coal	-	-	-	-	-	-	9,975,677	93,630,126
Oil - CC	-	-	-	-	21	-	21	3,279
Oil - Steam/CT	-	-	36,265	60,801	21,653	-	246,378	1,580,920
Gas - CC	-	-	-	-	5,947,149	-	14,101,084	146,298,025
Gas - CT	-	-	73,393	29,266	2,404,479	-	2,716,022	21,565,313
Nuclear	14,490,960	-	-	-	-	7,461,572	27,884,688	310,759,801
Total	14,490,960	-	109,658	90,067	8,373,302	7,461,572	54,923,870	573,837,463
Net Generation (mWh)								
Coal	-	-	-	-	-	-	931,005	8,586,685
Oil - CC	-	-	-	-	2	-	2	296
Oil - Steam/CT	-	(57)	2,704	3,566	1,956	-	19,013	121,623
Gas - CC	-	-	-	-	855,548	-	2,006,898	20,504,508
Gas - CT	-	-	6,075	1,935	215,905	-	244,207	1,939,138
Nuclear	1,386,757	-	-	-	-	719,281	2,698,997	29,504,561
Hydro (Total System)							35,266	480,797
Solar (Total System)							13,467	255,986
Total	1,386,757	(57)	8,779	5,501	1,073,411	719,281	5,948,856	61,393,594
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$30,435	-	$290,177	$1,711,739
Limestone	-	-	-	-	-	-	893,229	8,804,891
Re-emission Chemical	-	-	-	-	-	-	-	138,408
Sorbents	-	-	-	-	-	-	258,023	2,329,932
Urea	-	-	-	-	-	-	125,370	974,233
Total	-	-	-	-	$30,435	-	$1,566,799	$13,959,202

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	134,173
Tons received during period	-	-	-	-	46,645
Inventory adjustments	-	-	-	-	20,667
Tons burned during period	-	-	-	-	67,549
Ending balance	-	-	-	-	133,936
MBTUs per ton burned	-	-	-	-	25.87
Cost of ending inventory ($/ton)	-	-	-	-	72.32
Oil Data:					
Beginning balance	598,791	-	2,645,302	78,040	2,917,239
Gallons received during period	-	-	-	-	97,284
Miscellaneous use and adjustments	-	-	-	-	(4,605)
Gallons burned during period	4,800	-	-	-	200,203
Ending balance	593,991	-	2,645,302	78,040	2,809,715
Cost of ending inventory ($/gal)	2.11	-	2.80	2.53	1.90
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,927,924	3,213,704	-	-
MCF burned during period	-	4,927,924	3,213,704	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	13,919
Tons received during period	-	-	-	-	6,463
Inventory adjustments	-	-	-	-	(1,285)
Tons consumed during period	-	-	-	-	4,436
Ending balance	-	-	-	-	14,661
Cost of ending inventory ($/ton)	-	-	-	-	50.31

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Gas is burned as received; therefore, inventory balances are not maintained.
The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	1,243,800	447,683	-	-	-
Tons received during period	158,208	24,297	-	-	-
Inventory adjustments	4,323	-	-	-	-
Tons burned during period	252,867	74,806	-	-	-
Ending balance	1,153,464	397,174	-	-	-
MBTUs per ton burned	24.98	25.54	-	-	-
Cost of ending inventory ($/ton)	80.22	81.27	-	-	-
Oil Data:					
Beginning balance	339,569	297,591	176,309	769,469	11,936,445
Gallons received during period	473,293	285,269	-	-	-
Miscellaneous use and adjustments	(7,506)	(2,991)	-	-	-
Gallons burned during period	425,416	297,726	3,964	-	263,207
Ending balance	379,940	282,143	172,345	769,469	11,673,238
Cost of ending inventory ($/gal)	1.96	1.98	2.53	2.34	2.41
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	71,130
MCF burned during period	-	-	-	-	71,130
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	104,442	19,800	-	-	-
Tons received during period	293	99	-	-	-
Inventory adjustments	12,858	3,049	-	-	-
Tons consumed during period	13,208	5,475	-	-	-
Ending balance	104,385	17,473	-	-	-
Cost of ending inventory ($/ton)	32.77	34.60	-	-	-

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME December 2017
Coal Data:					
Beginning balance	-	-	-	1,825,656	1,740,091
Tons received during period	-	-	-	229,150	3,586,621
Inventory adjustments	-	-	-	24,990	24,990
Tons burned during period	-	-	-	395,222	3,667,128
Ending balance	-	-	-	1,684,574	1,684,574
MBTUs per ton burned	-	-	-	25.24	25.53
Cost of ending inventory ($/ton)	-	-	-	79.84	79.84
Oil Data:					
Beginning balance	9,884,871	8,128,672	273,349	38,045,647	38,849,474
Gallons received during period	-	-	-	855,846	9,926,624
Miscellaneous use and adjustments	-	-	-	(15,102)	(177,673)
Gallons burned during period	440,905	154,811	-	1,791,032	11,503,066
Ending balance	9,443,966	7,973,861	273,349	37,095,359	37,095,359
Cost of ending inventory ($/gal)	2.36	2.32	2.53	2.35	2.35
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	28,474	8,142,512	-	16,383,744	162,149,513
MCF burned during period	28,474	8,142,512	-	16,383,744	162,149,513
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	138,161	132,373
Tons received during period	-	-	-	6,855	211,140
Inventory adjustments	-	-	-	14,622	14,691
Tons consumed during period	-	-	-	23,119	221,685
Ending balance	-	-	-	136,519	136,519
Cost of ending inventory ($/ton)	-	-	-	34.89	34.89

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

DECEMBER 2017

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	46,645	$ 3,761,098	$ 80.63
	ADJUSTMENTS	-	118,586	-
	TOTAL	46,645	3,879,684	83.18
MAYO	SPOT	-	-	-
	CONTRACT	24,297	1,912,193	78.70
	ADJUSTMENTS	-	140,886	-
	TOTAL	24,297	2,053,079	84.50
ROXBORO	SPOT	-	-	-
	CONTRACT	158,208	12,249,141	77.42
	ADJUSTMENTS	-	685,984	-
	TOTAL	158,208	12,935,124	81.76
ALL PLANTS	SPOT	-	-	-
	CONTRACT	229,150	17,922,431	78.21
	ADJUSTMENTS	-	945,456	-
	TOTAL	229,150	$ 18,867,887	$ 82.34

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

DECEMBER 2017

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	5.95	7.74	13,014	2.44
MAYO	5.95	8.91	12,658	1.14
ROXBORO	6.03	10.23	12,579	1.64

Schedule 9

DUKE ENERGY PROGRESS

ANALYSIS OF OIL PURCHASED

DECEMBER 2017

	ASHEVILLE	MAYO	ROXBORO
VENDOR	Indigo	Greensboro Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	97,284	285,269	473,293
TOTAL DELIVERED COST	$ 191,128	$ 546,300	$ 907,071
DELIVERED COST/GALLON	$ 1.96	$ 1.92	$ 1.92
BTU/GALLON	138,000	138,000	138,000

Note:

Price adjustments of $(1,699), $(2,695) and $(769) for the Brunswick, Harris and Robinson stations, respectively, are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2017 - December, 2017
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	**8,179,118**	**938**	**99.54**	**98.13**
Brunswick 2	**7,191,037**	**932**	**88.08**	**90.50**
Harris 1	**8,208,573**	**928**	**100.98**	**98.11**
Robinson 2	**5,925,833**	**741**	**91.29**	**88.10**

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2017 through December, 2017
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,482,767	223	75.90	82.65
Lee Energy Complex	1B	1,464,597	222	75.31	83.49
Lee Energy Complex	1C	1,492,722	223	76.41	82.62
Lee Energy Complex	ST1	2,852,962	379	85.93	93.11
Lee Energy Complex	Block Total	7,293,048	1,047	79.52	86.61
Richmond County CC	7	1,233,843	189	74.52	82.09
Richmond County CC	8	1,211,252	189	73.16	80.98
Richmond County CC	ST4	1,401,229	175	91.40	89.76
Richmond County CC	9	1,416,732	214	75.57	80.70
Richmond County CC	10	1,442,282	214	76.94	82.16
Richmond County CC	ST5	1,923,780	248	88.55	91.65
Richmond County CC	Block Total	8,629,118	1,229	80.15	84.71
Sutton Energy Complex	1A	1,434,854	225	72.80	82.10
Sutton Energy Complex	1B	1,432,582	225	72.68	81.70
Sutton Energy Complex	ST1	1,722,272	267	73.64	93.02
Sutton Energy Complex	Block Total	4,589,708	717	73.07	86.04

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2017 through December, 2017

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,425,527	746	21.81	86.12
Roxboro 2	1,644,072	673	27.89	90.41
Roxboro 3	2,207,141	698	36.10	87.44
Roxboro 4	1,291,580	711	20.74	59.78

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2017 through December, 2017
Other Cycling Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	575,093	192	34.19	73.51
Asheville 2	645,514	192	38.38	84.99
Roxboro 1	865,469	380	26.00	86.42

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
January, 2017 through December, 2017
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	94,913	370	92.52
Blewett CT	-174	68	98.08
Darlington CT	77,056	911	83.54
Richmond County CT	1,600,355	916	89.42
Sutton CT	-245	76	98.66
Sutton Fast Start CT	84,855	90	89.31
Wayne County CT	129,482	959	95.70
Weatherspoon CT	-262	164	81.29

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data

Twelve Month Summary
January, 2017 through December, 2017
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	84,023	27.0	81.06
Marshall	4,057	4.0	23.98
Tillery	117,835	84.0	96.27
Walters	274,882	113.0	99.18

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.